AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- 1. (canceled).
- 2. (previously presented): The insulation varnish according to claim 9, in which the thermoplastic or thermosetting resin is selected from the group consisting of: polyamide imide (PAI), polyester imide (PEI), polyimide (PI), polyester (PE), polyurethane (PU), polyvinylacetal (PVA), and mixtures thereof.
- 3. (previously presented): The insulation varnish according to claim 9, in which the copolymer is obtained by adding 10% to 50% by weight of alkoxysilane.
- 4. (previously presented): The insulation varnish according to claim 9, in which the alkoxysilane is selected from tetraalkoxysilanes and trialkoxysilanes.
- 5. (previously presented): The insulation varnish according to claim 9, in which the mineral filler is selected from oxides and nitrides of B, Al, Ti, Zn, Zr, Cr, and Fe.
- 6. (previously presented): The insulation varnish according to claim 9, in which the mineral filler is selected from silicates.
- 7. (previously presented): The insulation varnish according to claim 9, comprising 2% to 20% by weight of mineral filler.

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8. (previously presented): The insulation varnish according to claim 9, in which the mineral filler has a specific surface area greater than 40 m²/g.

9. (currently amended): An insulation varnish for a winding wire, the varnish comprising a composition comprising: a) a copolymer obtained from a thermoplastic or thermosetting resin and at least one alkoxysilane; and b) a mineral filler selected from compounds of B, Al, Ti, Zn, Zr, Cr, Fe, and silicates, and mixtures thereof, the insulation varnish enabling the winding wire to withstand partial discharges;

wherein the winding wire is able to withstand peak-to-peak voltages of up to 3 kV at a frequency of up to 20 kHz with rise times of up to 1 kV/µs at a temperature of up to 180 °C.

- 10. (previously presented): A method of manufacturing an insulation varnish in accordance with claim 9, the method comprising the following steps: copolymerizing the thermoplastic or thermosetting resin with at least one alkoxysilane; adding a mineral filler selected from compounds of B, Al, Ti, Zn, Zr, Cr, Fe, silicates, and mixtures thereof; and homogenizing.
- 11. (original): A method according to claim 10, in which synthesis is performed in a solvent selected from ortho-cresyl, meta-cresyl, para-cresyl, cresylic acid, N-methylpyrrolidone, dimethylacetamide (DMAC), and mixtures thereof.
- 12. (original): A method according to claim 10, in which the reaction is performed in the presence of a catalyst selected from pTSA, dibutyltin, and a polysiloxane.
- 13. (previously presented): A method of manufacturing a winding wire, the method comprising the following steps: applying the insulation varnish in accordance with claim 9 on the wire; and setting the varnish.

14. (currently amended): A winding wire obtained by the method of claim 13 a method comprising applying an insulation varnish on the wire and setting the varnish,

wherein the varnish enables the winding wire to withstand partial discharges and comprises a composition comprising:

- a) a copolymer obtained from a thermoplastic or thermosetting resin and at least one alkoxysilane; and
- b) a mineral filler selected from compounds of B, Al, Ti, Zn, Zr, Cr, Fe, and silicates, and mixtures thereof;

and wherein the winding wire is able to withstand peak-to-peak voltages of up to 3 kV at a frequency of up to 20 kHz with rise times of up to 1 kV/µs at a temperature of up to 180 °C.

- 15. (previously presented): A coil comprising a conductor wire covered in the insulation varnish in accordance with claim 9.
- 16. (previously presented): The insulation varnish according to claim 3, in which the copolymer is obtained by adding 20% to 40% by weight of alkoxysilane.
- 17. (previously presented): The insulation varnish according to claim 4, in which the tetraalkoxysilane is tetraethoxysilane (TEOS) and the trialkoxysilane is selected from the group consisting of trimethoxysilane and aminopropyl-trimethoxysilane.
- 18. (previously presented): The insulation varnish according to claim 5, in which the mineral filler is titanium dioxide.
- 19. (previously presented): The insulation varnish according to claim 6, in which the silicate is selected from the group consisting of clays, nanocomposite clays, and mica.

- 20. (previously presented): The insulation varnish according to claim 7, comprising 5% to 15% by weight of mineral filler.
 - 21-22. (canceled).
- 23. (new): The winding wire according to claim 14, in which the thermoplastic or thermosetting resin is selected from the group consisting of: polyamide imide (PAI), polyester imide (PEI), polyimide (PI), polyester (PE), polyurethane (PU), polyvinylacetal (PVA), and mixtures thereof.
- 24. (new): The winding wire according to claim 14, in which the copolymer is obtained by adding 10% to 50% by weight of alkoxysilane.
- 25. (new): The winding wire according to claim 14, in which the alkoxysilane is selected from tetraalkoxysilanes and trialkoxysilanes.
- 26. (new): The winding wire according to claim 14, in which the mineral filler is selected from oxides and nitrides of B, Al, Ti, Zn, Zr, Cr, and Fe.
- 27. (new): The winding wire according to claim 14, in which the mineral filler is selected from silicates.
- 28. (new): The winding wire according to claim 14, comprising 2% to 20% by weight of mineral filler.
- 29. (new): The winding wire according to claim 14, in which the mineral filler has a specific surface area greater than $40 \text{ m}^2/\text{g}$.

- 30. (new): The winding wire according to claim 24, in which the copolymer is obtained by adding 20% to 40% by weight of alkoxysilane.
- 31. (new): The winding wire according to claim 25, in which the tetraalkoxysilane is tetraethoxysilane (TEOS) and the trialkoxysilane is selected from the group consisting of trimethoxysilane and aminopropyl-trimethoxysilane.
- 32. (new): The winding wire according to claim 26, in which the mineral filler is titanium dioxide.
- 33. (new): The winding wire according to claim 27, in which the silicate is selected from the group consisting of clays, nanocomposite clays, and mica.
- 34. (new): The winding wire according to claim 28, comprising 5% to 15% by weight of mineral filler.